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the labors of botanists by furnishing references to all the published descriptions of species of North American plants, with a chronological arrangement of the synonymy. This part covers the ground of Vol. I of Torrey and Gray's *Flora of North America*. The territory embraced includes Greenland and the Arctic coast on the north, and the borders of Mexico closely adjacent to the United States on the south. The citation of authorities of the species west of the Mississippi and northward is designed to be full and complete, and the same may be said for the Atlantic States before 1840. The work has demanded a good deal of herbarium labor, and will give an undoubted stimulus to botanical studies.

RECENT BOOKS AND PAMPHLETS.—Some microscopical observations of the Phonograph Record. By Persifor Frazer. (Read before the Am. Philos. Society, April 5th, 1877). 8vo, pp. 16.

The Louisville Limestones, &c. By Jas. Hall. (Palæontology of New York, Vol. V, part 2. Advance sheets, Nov. 1877.) 4to, pp. 16.

Studier öfver mjölkdentitionen och tändernas Homologier hos Chiroptera. Af Wilhelm Leche. 4to, pp. 47. Pl. 2. Lund. 1875.

Studien über das Milchgebiss und die Zähnhomologien bei den Chiropteren, von Wilhelm Leche. An abstract of the proceeding in Archiv f. Naturgesch. xxxiii. Bd. 1. 1877.

Report of Prof. Joseph Henry, Secretary of the Smithsonian Institution, for the year 1877. Washington Gov. Printing Office, 1878. 8vo, pp. 50.

The Geographical distribution of the Mammalia, considered in relation to the principal Ontological regions of the Earth, and the laws that govern the distribution of animal life. By Joel Asaph Allen. Bulletin of the U. S. Geolog. and Geograph. Surv. IV, No. 2. 8vo, pp. 175. Washington, 1878.

On the Janssen Solar Photograph and Optical Studies. By S. P. Langley. 8vo, pp. 5. New Haven, 1878.

A commonly accepted theory in ophthalmic physiology disproved by a crucial experiment. By Henry Hartshorne, M.D. 8vo, pp. 2. (Extracted from the Am. Journ. Med. Sciences, for April, 1878.)

Water Supply of the State of New Jersey. Report of a Committee, A. R. Leeds, Chairman. 8vo, pp. 17. Philadelphia, 1878.

On the Asphaltic Coal from the shale of the Huron River, Ohio, containing seams of Sulphate of Baryta. By A. R. Leeds, with a geological note by J. S. Newberry. Read Jan. 11, 1875. 8vo, pp. 2.

Notes on the Locust in the North-west, in 1876. By George Dawson, F. G. S., &c. (From the Canadian Naturalist, Vol. VIII, No. 7.) 8vo, pp. 7. 1878.

On the Mechanical Genesis of Tooth-forms. By Jno. A. Ryder. (Proc. Phil. Acad. Nat. Sci. 1878.) 8vo, pp. 36.

Material for a Bibliography of North American Mammals. By Theodore Gill and Elliott Coues. Appendix B, extracted from the eleventh volume of the final reports of the Government Survey. 4to, pp. 131. Government Printing Office, Washington, 1877.

Original memoirs and clinical lectures. By H. C. Wood, Jr. 8vo, pp. 4. Philadelphia, 1878.

Polarity in character: A study of the sex of mind. By Richard Randolph. 8vo, pp. 20. Philadelphia, 1878.

Recherches sur les fossiles paléozoïques de la Nouvelle-Galles du Sud (Australie); par L.-G. De Koninck, Docteur en Sciences, etc., etc. Text 8vo, pp. 225, accompanied by 4to plates, V-XXIV. Bruxelles, 1876-77.

Palæontological Bulletin, No. 29, Descriptions of Extinct Batrachia and Reptilia from the Permian Formation of Texas. By E. D. Cope. (Published May 8, 1878.)

Ueber Laichen und Entwickelung des Ostsee-Härings. Von Dr. C. Kupffer (aus dem Jahresbericht der Commission zur wissenschaftlichen Untersuchung der deutschen Meere in Kiel). Berlin, 1878. 4° pp.

U. S. Geological Exploration of the Fortieth Parallel, Clarence King, Geologist-in-charge. Vol. 2, Descriptive Geology, by Arnold Hague and S. F. Emmons. Illustrated by 26 plates. Washington, 1877. 4° pp. 890. Vol. 4, Part 1. Palæontology, by F. B. Meek. Part 2, Palæontology, by James Hall and R. P. Whitfield. Part 3, Ornithology, by Robert Ridgway. 24 plates. Washington, 1877. 4° pp. 669.

The Louisville Limestones. Note on the Hydraulic Beds and associated Limestones at the Falls of the Ohio. Palæontology of New York, V. Part 2. Advance sheets. Nov. 1877. 4° pp. 16.

Supplement to the second edition of Acadian Geology, containing additional facts as to the geological structure, fossil remains and mineral resources of Nova Scotia, New Brunswick and Prince Edward Island, by J. W. Dawson, F. R. S., etc. London. MacMillan & Co., 1878. 8° pp. 102.

Sur la Découverte d'un orthoptère coureur de la Famille des Phasmienis dans les Terrains supra-houillers de Commeny. *Protophasma dumasii*. Par M. Charles Brogniart. 8° pp. 4.

The Distribution of the Till in New Hampshire, Massachusetts and Long Island. By Warren Upham. From the third volume of the Final Report upon the Geology of New Hampshire. Concord, N. H. 1877. 8° pp. 24.

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GENERAL NOTES.

BOTANY.

CLEISTOGAMOUS FLOWERS OF *DANTHONIA*.—I have been much interested in the article in the April number of the *NATURALIST*, by C. G. Pringle, on the Cleistogamous Flowers of *Danthonia*. *D. spicata* is very common in all our dry, sterile, or rocky woods; occasionally some bunches occur in moist ground, and these can readily be pulled out by the roots, with no disposition to separate at the lower joints; but when the plant grows in dry ground, as it usually does, the culms separate near the root without much difficulty. This I have always considered was due not so much to the plant itself, as to the place of growth; the firm hold the fibrous roots have to the ground, would cause a separation when the plant is pulled vigorously, many others act the same way. With *Danthonia sericea*, however, my experience has been very different from that of Mr. Pringle. This species is quite frequently met with in the dry loose sand in the Pine-barren region of New Jersey, growing in little tufts; in that respect somewhat different in habit from *D. spicata*. Last June whilst botanizing near Egg Harbor City, in this State, I found a large number of these tufts, each having from 6 to 20 culms, and so brittle or readily disarticulating at the lower joints, that it was with great difficulty that I could secure a decent specimen; on endeavoring to pull up the plant, in every instance the separation occurred; the only way to succeed was to dig out the roots without touching the stem at all, and even then the effort to shake off the loose sand, often caused the culm to break away. Our specimens of *D. spicata* very frequently have a few flowers in the axils, but I have never seen any in *D. sericea*.—Isaac C. Martindale, Camden, N. J.

MEANS BY WHICH PLANTS ARE PROTECTED FROM ANIMALS AND UNFAVORABLE WEATHER, ETC.—Under this title Otto Kuntze has published a work which has been reviewed in Trimen's *Journal of*